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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,665	02/14/2002	Garrett Andrew Smith		2982
26375	7590 01/11/2005		EXAM	INER
	ER, SCHIEBELHUT, I	CHARLES, MARCUS		
1010 PEACH SAN LUIS O	STREET BISPO, CA 93401		ART UNIT	PAPER NUMBER
			3682	-

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Application No. Applicant(s)								
## Examiner ## Art Unit ## Marcus Charles ## Ma	`	Application No.	Applicant(s)					
Marcus Charles — The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filled If the period for reply specified above, the maximum statutory period will apply and will expire 31% (5) MONTHS from the mailing date of timely. If NO period for reply within the set or extended period for reply will be considered timely. If NO period for reply within the set or extended period for reply will be considered timely. If NO period for reply within the set or extended period for reply within the set of extended period and set of the set of extended period for reply within the set of extended period fo	Office Astion Commons	10/077,665	SMITH, GARRETT ANDREW					
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13(q). In no event, however, may a reply be timely filled after ISI (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the madernum statutory period will apply available under the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S.C. § 133). Any reply received by the Office later than there months after the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ARANDONED (35 U.S.C. § 133). Any reply received by the Office later than there months after the mailing date of this communication, even if timely filled, may reduce any earned patient term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filled on 29 October 2004. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. - Claim(s) is/are allowed. - Claim(s) is/are rejected. 7) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are rejected to. 8) □ Claim(s) is/are objected to by the Examiner. 10) □ The precipitation is objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is object								
THE MAILING DATE OF THIS COMMUNICATION. Elemensor of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication. If the period for reply is specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above is less than thirty (30) days, a reply within the statutory period will apply and will expire SIX (8) MONTHS from the mailing date of this communication. Failure to neply within the set or extended period for reply will, by statute, cause the application to become ABADONED (35 U.S.C. § 135). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 29 October 2004. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) □ is/are withdrawn from consideration. 5) □ Claim(s) □ is/are allowed. 6) □ Claim(s) 1-18 is/are rejected. 7) □ Claim(s) □ is/are objected to. 8) □ Claim(s) □ are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 29 October 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.121(d). 11) □ The oat		ears on the cover sheet with the c	orrespondence address					
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Priority under 35 U.S.C. § 119								
	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	Priority under 35 U.S.C. § 119							
a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.	a) All b) Some * c) None of:)-(d) or (f).					
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
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Attachment(s)	Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)								
Paper No(s)/Mail Date 6) Other:	· · · · · · · · · · · · · · · · · · · 		,					

Application/Control Number: 10/077,665

Art Unit: 3682

DETAILED ACTION

This action is responsive to the amendment filed 10-29-2004, which has been entered. Claims 1-18 are currently pending.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1, 3, 4, 6, 7, 9, 10 and 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Romano (5,246,402) in view of Dzus (2,511,051) and Kemper (3,424,212). WO (9308071) discloses a fastener assembly (8) for attaching a chainring to a bicycle, the fastener a nut (8) comprising an internally threaded cylinder, an external flange (not labeled) on one end and a hole in the cylinder; a bolt threadably engages the nut and comprising a tool interface (not labeled) formed inside the shaft. Romano does not disclose a tool interface means formed inside the cylinders of the nut and the tool interface of the bolt extends substantially thought the length of the bolt. Dzus discloses a fastener system (10, 11) comprising a nut (11) having a threaded cylinder (16) with internal threads (18) and a tool interface means (19) formed in the cylinder to allow a tool to tighten the nut to the bolt so that the nut will be properly tightened unto the bolt. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the nut of Romano so that it includes a

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tool interface in view of Dzus to allow a tool to tighten the nut to the bolt so that the nut will be properly tightened unto the bolt. In addition, Kemper discloses a fastener assembly comprising a bolt (13) having a tool interface (22) that extends through the length of the bolt in order tool to tighten the entire length of the bolt. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the bolt of Romano so the tool interface extends through the length of the bolt in view of Kemper so that the bolt will not snap under high twisting loads and to prevent the tool from inadvertently twisting and damaging the tool interface in the same instant.

Regarding claims 3, 6 and 9, note the tool interfaces (15 and 19) of Dzus device have different sizes and deferent depths.

In claim 10, note the tool interface of the bolt faces the outside of the crank handle.

3. Claims 2, 5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Romano in view of Dzus and Kemper. The combination of Romano, Dzus and Kemper do disclose that the tool interface means in the nut and bolt have the same size. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fastening device of Romano in view of Dzus and Kemper so that the tool interfaces are of same size, since such a modification would have been a matter of design choice, and such a modification would involve a mere change in weight and cost of manufacturing. A change in size is generally recognized as being within the level of ordinary skill in the art. In Rose, 105 USPQ 237 (CCPA 1955).

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4. Claims 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Romano in view of Dzus and Kemper. The combination of Romano in view of Dzus and Kemper do not disclose the nut toll inter face means faces the outside of the crank handle. It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the fastening device of Romano in view of Dzus and Kemper so that the tool interface means faces the outside of the crank handle, since this involves rearranging the nut and bolt to face a different direction and it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

Response to Arguments

- 5. Applicant's arguments with respect to claims 1-18 have been considered but are most in view of the new ground(s) of rejection.
- 6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marcus Charles whose telephone number is (703) 305-6877. The examiner can normally be reached on Monday-Thursday 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bucci can be reached on (703) 308-3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marcus Charles Primary Examiner Art Unit 3682 January 09-2005